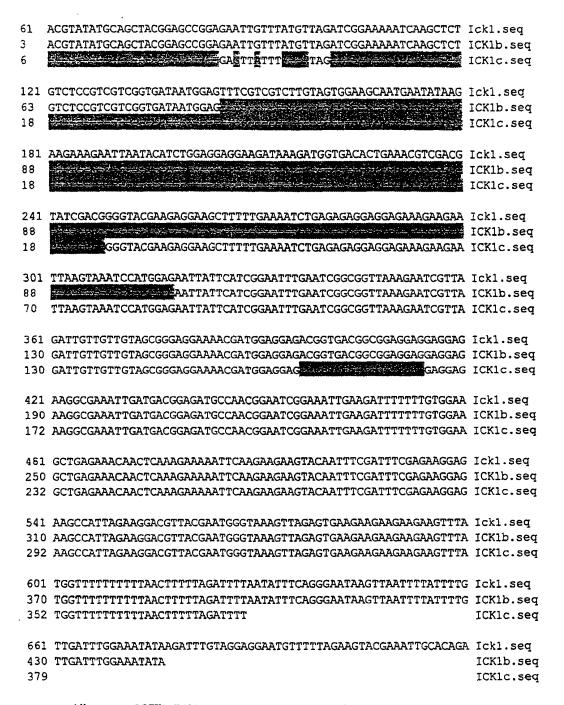
A I II Ш ICK1 MILLA MILLIA В ATCTCTCTCTCACAGAGATTGTAACTTCACGCACACGTAACCTAAATCGAAGATGGTG 60 M V 2 AGAAAATATAGAAAAGCTAAAGGAATTGTAGAAGCTGGAGTTTCGTCAACGTATATGCAG 120 R K Y R K A K G I V E A G V S S T Y M Q 22 CTACGGAGCCGGAGAATTGTTTATGTTAGATCGGAAAAATCAAGCTCTGTCTCCGTCGTC 180 L R S R R I V Y V R S E K S S S V S V V 42 GGTGATAATGGAGTTTCGTCGTCTTGTAGTGGAAGCAATGAATATAAGAAGAAGAATTA 240 G D N G V S S S C S G S N E Y K K E L 62 ∇ I ATACATCTGGAGGAGGAAGATAAAGATGGTGACACTGAAACGTCGACGTATCGACGGGGT 300 I H L E E E D K D G D T E T S T Y R R G 82 ACGAAGAGGAAGCTTTTTGAAAATCTGAGAGAGGAGGAGGAGAAGAAGAATTAAGTAAATCC 360 TKRKLFENLREEEKEELSKS 102 ATGGAGAATTATTCATCGGAATTTGAATCGGCGGTTAAAGAATCGTTAGATTGTTGTT 420 MENYSSEFESAVKESLDCCC122 AGCGGGAGGAAAACGATGGAGGAGACGGTGACGGCGGAGGAGGAGGAGGAGGAGAAATTG 480 S G R K T M E E T V T A E E E E K A K L 142 MTEMPTESEIEDFFVEAEKQ 162 VIII CTCAAAGAAAATTCAAGAAGAAGTACAATTTCGATTTCGAGAAGGAGAAGCCATTAGAA 600 LKEKFKKKYNFDFEKEKPLE 182 GRYEWVKLE. TAACTTTTTAGATTTTAATATTTCAGGGAATAAGTTAATTTTATTTTGTTGATTTGGAAA 720 TATAAGATTTGTAGGAGGAATGTTTTTAGAAGTACGAAATTGCACAGAÃAAAGAÃGAAAG 780 CTTTTTAACAGATTTTAGAGCCCAGAAAAGTCGTGTCTTTTAGCTCTACTTTTACCTCTT 840 CTTCGAATCTTGTGTATCTTTTAGCATATTCTTTAGTACATTTTTATGTTTTTTGGTGACT 900 GATA* 905

Characterization of cDNA (Wang et al., 1997) and genomic sequences of ICK1.

- (A). Genomic organization ICK1. Open bars represent exons and filled bars, introns.
- (B). Features of cDNA sequence and deduced amino acid sequence.

Figure 1



Alignment of ICK1 cDNA sequence with ICK1b and ICK1c showing the differences

Figure 2

cDNA sequence of ICK2

Figure 3

cDNA sequence of ICN2

Figure 4

cDNA sequence of ICN6

Figure 5

WO 99/64599 PCT/CA99/00532

ATTA-AGAGTCTGGTTCCAGGTCTCGCGTTGACTCGGTTAACTCGGCTCCTGTAGCTCAG
AGCTCTAATGAAGATGAATGTTTTGACAATTTCGTGAGTGTCCAAGTTTCTTGTGGTGAA
AACAGTCTCGGTTTTGAATCAAGACACAGCACAAGGGAGAGCACGCCTTGTAACTTTGTT
GAGGATATGGAGATCATGGTTACACCAGGGTCTAGCACGAGGTCGATGTGCAGAGCAACC
AAAGAGTACACAAGGGAACAAGATAACGTGATCCCGACCACTAGTGAAATGGAGAGGTTC
TTTGCATATGCAGAGCAGCAACAGAGGCTATTCATGGAGAAGTACAACTTCGACATT
GTGAATGATATCCCCCTCAGCGGACGTTACGAATGGGTGCAAGTCAAACCATGAAGTTCA
AAAGGAAACAGCTCCAAAAGACATGGTGTGAAGTTAAGAGAATTGTGATGGAGTTTAACAG
AACTAACCAAACATCAGAAATCGTGTTAATCCTTAAGTTAATAATGTGGGTTA

cDNA sequence of ICN7

SEQ ID NO. 15: The nucleotide sequence of *Chenopodium rubrum CDKI1* (GenBank AJ002173)

SEQ ID NO. 16: The amino acid sequence of Chenopodium rubrum CDKI1 MAAAATPTSS PAKKIKKVSK SSYNIPQLRS RRKNLSAPEN FAELETTPLE VAAVVEEEEVANCSSSEVIT TARSDFPPSC CSSNYDQLSS SEPEVVKDDD GLGNRTADPE VESGEASSKQ KESHRTEARE ATKLDDQDYP ATKSTVQIKM PSDSEIEEFF AVAEKDLQKR FSEKYNFDIV KDVPLKGRYD WVPINP

Figure 6

consensus named

residues that match the

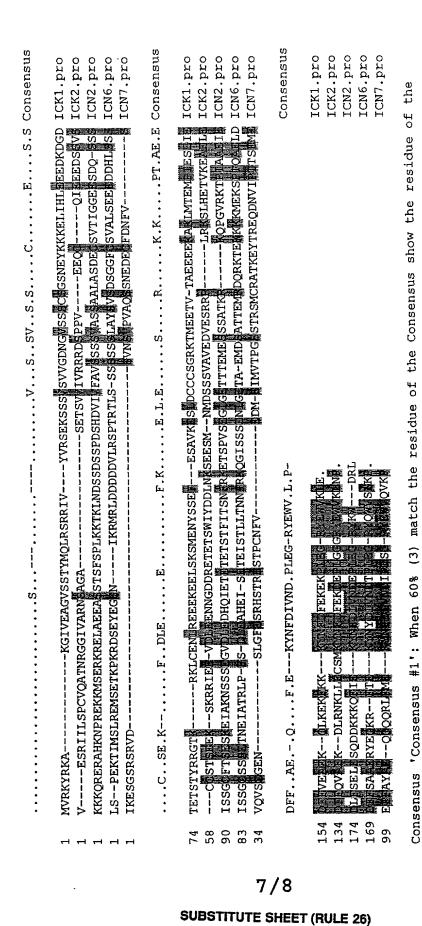
fill)

40%

Decoration 'Decoration #1': Shade (with black at

'Consensus #1' exactly.

Consensus, otherwise show '.'



Alignment of deduced amino acid sequences of ICK1, ICK2, ICN2, ICN6 and ICN7

igure 7

_Bait	ICK1 (Num	nbers indicate the amino acid positions)	Filter assay	<u>Activity</u>
cdc2a	1			0.0
1	(3-191)			0.0
cdc2a	(3-191)		• • • •	12.4
cdc2a	(73-191)		क्राज्य क्या क्या	40.6
cdc2a	(109-191)		Militia with work	42.6
cdc2a	(154-191)	C	• • •	10.7
cdc2a	(3-175)			0.3
cdc2a	(3-162)			0.3
cdc2a	(3-152)			0.0
cyclin δ3	1			0.8
cyclin δ3	(3-191)		tool your tone	100.0
cyclin δ3	(73-191)		And the past	397.3
cyclin δ3	(109-191)			480.7
cyclin δ3	(154-191)			7.1
cyclin δ3	(3-175)		Mark Berthall a	19.9
cyclin δ3	(3-162)		, ,	2.5
cyclin δ3	(3-152)			2.2
ATMPK2	(3-191)			0.0

Figure 8